

## EXECUTIVE SUMMARY

Pond 3, located in the southern portion of Hill Air Force Base (Hill AFB), was constructed between 1955 and 1957 for the purpose of storm water retention. Surface runoff from a portion of the industrial area of the base is collected by a storm sewer system which discharges to Pond 3. Five storm sewer lines empty to Pond 3.

Numerous facilities and buildings drained by the storm sewer lines associated with Pond 3 handle hazardous materials. Most of the floor drains in the buildings have been connected to the industrial waste sewer system; however, the storm sewer system still drains the ramp areas for the 388th F-16 fighter squadron. In addition, there are some buildings which have floor drains which are known to be connected to the storm sewer system draining to Pond 3.

Hazardous materials which may have entered the storm sewer system through accidental spills, leaks or intentional disposal are many and varied. Included are acids, metallic compounds, polynuclear aromatic compounds and phenols. In addition, there is extensive use of JP-4 fuel, solvents, hydraulic fluids, oils, gasoline and kerosene.

The discharge from Pond 3 is monitored at a point downstream under a NPDES permit, and inflow to Pond 3 is monitored visually on a periodic basis by staff members of DEV at Hill AFB. There have been many reported spills or incidents of discharge which may have potentially impacted the water quality of Pond 3. Reported spills include hydraulic fluid, JP-4, kerosene, deicing fluid, chromic

acid, trichloroethylene, toluene, hydrazine, ammonia, hydrochloric acid and small amounts of PCBs.

Receptors to potential Pond 3 contamination include ground-water users downgradient of Pond 3 and the surface waters of Kay's Creek. Of primary risk are the water supply wells located southwest and downgradient of Pond 3 in the Layton area. Clearfield City's main supply well is located approximately 500 feet downgradient of Pond 3. The well is completed in deep aquifers and has not been found to be contaminated. Preliminary studies are currently being performed to determine the presence and extent of ground-water contamination in this general area.

Sampling and analysis that has been performed at Pond 3 was performed above the water line and is not adequate to characterize the water quality or sediment in the pond. Accordingly, the development of a site investigation work plan is recommended to investigate the nature of potential contamination at Pond 3 and downgradient ground water.